IAP3 Rec'd PCT/PTO 16 DEC 2009

PTO-1390 (Rev. 12-2004) Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 60.US2.PCT

U.S. APPLI

INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. PRIORITY DATE CLAIMED

PCT/US	52004/019574	June 17, 200	4	June 20, 2003				_	
HUMAN	F INVENTION N G PROTEIN-COUPLED RECEIO OVASCULAR DISORDERS	PTOR AND	MODULATORS	THEREOF	FOR	THE	TREATMENT	OF	
APPLICA	ANT(S) FOR DO/EO/US		-						
John W. ADAMS and Daniel T. CONNOLLY Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1.	This is a FIRST submission of items concern	•	•	,					
2. 🗌	This is a SECOND or SUBSEQUENT submis	ssion of items cor	ncerning a filing unde	er 35 U.S.C. 371;					
3.	This is an express request to begin national (21) indicated below.	examination prod	cedures (35 U.S.C.	371(f)). The subm	ission m	ust inclu	de items (5), (6), (9)) and	
4. 🛛	The US has been elected (Article 31).								
5. 🔀	A copy of the International Application as filed	1 (35 U.S.C. 371(c)(2)))						
	a. is attached hereto (required only if no	ot communicated	by the International	Bureau).					
	b. has been communicated by the Inter	national Bureau.							
	c. is not required, as the application wa	s filed in the Unite	ed States Receiving	Office(RO/US)			•		
6.	An English language translation of the Interna	ational Application	n as filed (35 U.S.C.	371(c)(2)).	٠.				
	a. is attached hereto.				• .				
	b. has been previously submitted under	35 U.S.C. 154(d)(4).		S. C	-	***		
7. 🛛	Amendments to the claims of the International	l Application und	er PCT Article 19 (3	5 U.S.C. 371(c)(3))				
	a. are attached hereto (required only if	not communicate	d by the Internationa	al Bureau).					
	b. have been communicated by the Inte	rnational Bureau					•		
	c. have not been made; however, the ti	me limit for makir	ng such amendment	s has NOT expired					
	d. And have not been made and will not be i	nade.			•				
8. 🗌	An English language translation of the amend	lments to the clai	ms under PCT Artic	le 19 (35 U.S.C. 37	71(c)(3)).				
9. 🔀	An oath or declaration of the inventor(s) (35 t	J.S.C. 371(c)(4)).	(unsigned)		`				
10.	An English language translation of the annex Article 36 (35 U.S.C. 371(c)(5)).	es of the Internat	onal Preliminary Ex	amination Report u	ınder PC	T			
Items	11 to 20 below concern document(s) or info	ormation include	ed:						
11. 🗌	An Information Disclosure Statement under 3	7 CFR 1.97 and	1.98.				,		
12.	An assignment document for recording. A se	parate cover she	et in compliance wit	h 37 CFR 3.28 and	1 3.31 is	included	•		
13. 🛚	A preliminary amendment.								
14. 🛚	An Application Data Sheet under 37 CFR 1.7	6.							
15. 🗌	A substitute specification.								
16. 🛚	A power of attorney and/or address letter. – in	ncluded on the D	eclaration						
17. 🛛	A computer-readable form of the sequence lis	sting in accordan	ce with PCT Rule 13	Ster.2 and 35 U.S.C	C. 1.821 -	- 1.825.			
18.	A second copy of the published international	application under	35 U.S.C. 154(d)(4).					
19.	A second copy of the English language trans	ation of the interr	national application (under 35 U.S.C. 15	54(d)(4).				
20. 🛛	Other items or information: Paper copy of Se	equence Listing	Sequence Submis	ssion Statement			37. (2. 39		

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. ATTORNEY'S DOCKET NUMBER INTERNATIONAL APPLICATION NO. U.S. APPLICATION NO. (#Pkpowg, see 372CER 1.5) 60.US2.PCT PCT/US2004/019574 Office use only Applicant use The following fees are submitted: 21. \$ 300.00 a) Basic national fee.....\$300.00 \$ 200.00 b) Examination fee......\$200.00 \$ 500.00 c) Search fee......\$500.00 \boxtimes \$1,000.00 TOTAL OF ABOVE CALCULATIONS = \$1000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof RATE Number of each 50 or fraction thereof **Total Sheets** Extra sheets (round up to a whole number) x \$250.00 \$ 500.00 2 64/50 =164 - 100 = Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months \$ from the earliest claimed priority date (37 CFR 1.492(e)). \$ **RATE** NUMBER EXTRA **NUMBER FILED CLAIMS** x \$50.00 \$ 2,900.00 58 78 - 20 = **Total Claims** x \$200.00 \$ 1,800.00 9 12 - 3 = **Independent Claims** \$ 300.00 + \$300.00 Yes MULTIPLE DEPENDENT CLAIMS(S) (if applicable) **TOTAL OF ABOVE CALCULATIONS =** \$6,500.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced \$3,250.00 .by 1/2. SUBTOTAL = \$3,250.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). \$3,250.00 **TOTAL NATIONAL FEE =** Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property TOTAL FEES ENCLOSED = \$3,250.00 Amount to be refunded: Amount to be charged: A check in the amount of \$____ to cover the above fees is enclosed. Please charge my Deposit Account No.50-1441 in the amount of \$3,250.00 to cover the above fees. \boxtimes A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to \boxtimes Deposit Account No. 50-1441. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO: SIGNATURE Arena Pharmaceuticals, Inc. 6166 Nancy Ridge Drive Deno P. Dialynas San Diego, CA 92121-3223 NAME 50,711 REGISTRATION NUMBER

Page 2 of 2

בחשון סיים אפרה ושבון לה.פוחהו

IAP20 F.SC' 1 POT TO 16 DEC 2005

Telephone: (858) 453-7200, x. 1440 E-Mail: ddialynas@arenapharm.com

December 16, 2005

Express Mail Label No. EV 332846855 US

Mail Stop: PCT

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

RE:

U.S. National Phase Patent Application of

Serial No. PCT/US04/019574

For: "HUMAN G PROTEIN-COUPLED RECEPTOR AND MODULATORS THEREOF FOR THE TREATMENT OF CARDIOVASCULAR

DISORDERS"

Inventors: John W. ADAMS and Daniel T. CONNOLLY

Our Ref.: 60.US2.PCT

Dear Sir:

Enclosed please find the above-identified U.S. National Phase application under 35 U.S.C. 371 for filing with the United States Patent and Trademark Office. The applicant claims Small Entity status. The following documents are transmitted herewith:

		Qua	Quantity	
1)	Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US)	2	Pages	
,	Concerning a Filing Under 35 U.S.C. 371			
2)	Declaration and Power of Attorney (unsigned)	5	Pages	
3)	Preliminary Amendment	14	Pages	
4)	Application Data Sheet	4	Pages	
5)	Sequence Submission Statement	1	Page	
6)	Paper Copy of Sequence Listing	19	Pages	
7)	Diskette containing Sequence Listing	•		
8)	Authorization to charge Deposit Account 50-1441 in the amount of \$3,250.00			
•	for the filing fee – (see Transmittal Sheet)			
9)	Return Receipt Postcard			

The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment in the processing of these documents to our Deposit Account No. 50-1441.

Very truly yours,

ARENA PHARMACEUTICALS, INC.

Deno P. Dialynas Reg. No. 50,711

Certificate of Mailing under 37 CFR 1.10

DPD / lal Enclosures

Date of Deposit: December 16, 2005 Express Mail Label No.: EV 332846855 US I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the Date of Deposit shown above, postage prepaid and is addressed to Mail Stop PCT,

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature